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DATE: Saturday, June 22, 2002

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<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L10	vaccum and robot\$6	79	L10
L9	vaccum and robot\$6 and approximate same periphery	1	L9
L8	wireless and L4	0	L8
L7	analyz\$3 and L4	1	L7
L6	controller and L4	4	L6
L5	autonomous and L4	0	L5
L4	vaccum cleaner	111	L4
L3	autonomous and vaccum cleaner	0	L3
L2	robot\$6 and vaccum cleaner	0	L2
L1	robotic vaccum cleaner	0	L1

END OF SEARCH HISTORY

**Self-contained wall-climbing robot with closed link mechanism**

*Ryu, S.W.; Park, J.J.; Ryew, S.M.; Choi, H.R.* Intelligent Robots and Systems, 2001. Proceedings. 2001 IEEE/RSJ International Conference on , Volume: 2 , 2001  
Page(s): 839 -844 vol.2

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robot vacuum controller communicating analyze area autonomous scanning pattern

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## NASA Telerobotics Program Plan - Chapter 2

... a precision **scanning** ... This collection **area** ... means for **communicating** ... The Drill **Controller** ... tests of **autonomous** ... and **analyze** ... the **robot** ... cryo-vacuum ... speckle **pattern** ... [ranier.hq.nasa.gov/telerobotics\\_page/FY97Plan/Chap2d.html](http://ranier.hq.nasa.gov/telerobotics_page/FY97Plan/Chap2d.html) - 101k - [Cached](#) - [Similar pages](#)

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... about the point of focus **area**. ... Vision System is capable of **autonomous** ... INVESTING IN

OUR FUTURE space **robot** ... The **controller** makes the necessary adjustments ... [www.space.gc.ca/\\_publications/pdf/csa\\_pub/csa\\_sec/success\\_stories.pdf](http://www.space.gc.ca/_publications/pdf/csa_pub/csa_sec/success_stories.pdf) - [Similar pages](#)

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## [PDF] Media Lab Projects List

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... 3-D printing, laser cutting, **vacuum** ... Wireless Push Button **Controller** 8 ... Village **Area** Network 10 ... Human-Robot Interaction Studies 15 ... MACK: Media Lab **Autonomous** ... [www.media.mit.edu/research/2002-04web.pdf](http://www.media.mit.edu/research/2002-04web.pdf) - [Similar pages](#)

## Penn Engineering \ Faculty \ Faculty Research Directory

... a feedback **controller** ... **Communicating** Neuronal ... Transactions on **Pattern** ... Oxide Surfaces: **Scanning** ... and **autonomous** ... ultra-high-**vacuum** ... in this **area** ... numerically **analyze** ... [www.seas.upenn.edu/faculty/facdir.html](http://www.seas.upenn.edu/faculty/facdir.html) - 101k - [Cached](#) - [Similar pages](#)

## [PDF] Media Lab Projects List

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... billions of inexpensive **communicating** ... printing, laser cutting, **vacuum** ... Wireless Push Button **Controller** ... Village **Area** Network ... Media Lab **Autonomous** ... DJ I, **Robot** ... [tech-www.informatik.uni-hamburg.de/lehre/ws2001/medientechnik/material/mit-media-lab-projects2001-10web.pdf](http://tech-www.informatik.uni-hamburg.de/lehre/ws2001/medientechnik/material/mit-media-lab-projects2001-10web.pdf) - [Similar pages](#)

## [PDF] Subject Categories of the Division D. Engineering

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... 61 31 ENGINEERING (GENERAL) Includes **vacuum** technology; control ... organizations and applied in the Rosslyn VA **area** ... 8/3 slope of the theoretical **pattern** ... [www.sti.nasa.gov/Pubs/star/9701/divd1.pdf](http://www.sti.nasa.gov/Pubs/star/9701/divd1.pdf) - [Similar pages](#)

## [PDF] Subject Categories of the Division F. Life Sciences

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... plant molecular biology research to **analyze** ... KA levels follow a circadian **pattern** ... BPEC into the denuded **area** ... significant morphological changes by **scanning** ... [www.sti.nasa.gov/Pubs/star/9722/divfg.pdf](http://www.sti.nasa.gov/Pubs/star/9722/divfg.pdf) - [Similar pages](#)

## [PDF] Page 1

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Page 1. ... and control algorithms for **aut nom us** ... PCA) techniques proposed for **pattern** ... has been achieved by using **vacuum** ... cost per unit **area** ... as an all-terrain **rob t** ...

[www.apple.com/scitech/sciencemasters/hamilton/pdf/censbrochure.pdf](http://www.apple.com/scitech/sciencemasters/hamilton/pdf/censbrochure.pdf) - [Similar pages](#)

[PDF] [Automated Inspection of Aircraft](#)

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... mechanical issues, obtaining more **autonomous** ... to the control **area** ... of the **robot: scanning** ... be provided to **analyze** ... The **robot** was connected ... creation of a **vacuum** ...

[www.tc.faa.gov/its/worldpac/techrpt/ar97-69.pdf](http://www.tc.faa.gov/its/worldpac/techrpt/ar97-69.pdf) - [Similar pages](#)

[PDF] PII: S1389-1286(01)00302-4

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... such as **vacuum** ... eg, printing, **scanning** ... in office buildings; **robot** ... dispensable, \* be **autonomous** ... AVR8535

micro-**controller** ... network, **communicating** ... local **area** ...

[www.ece.purdue.edu/~cath/ee647/presentation14ref1.pdf](http://www.ece.purdue.edu/~cath/ee647/presentation14ref1.pdf) - [Similar pages](#)

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Generate Collection

L4: Entry 74 of 111

File: JPAB

Oct 20, 1992

PUB-NO: JP404295323A

DOCUMENT-IDENTIFIER: JP 04295323 A

TITLE: VACUUM CLEANER

PUBN-DATE: October 20, 1992

## INVENTOR-INFORMATION:

NAME

COUNTRY

ICHISE, TOSHIHIKO

TERADA, JIRO

UEDA, KAZUMITSU

YOSHIDA, SUMITAKE

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

MATSUSHITA ELECTRIC IND CO LTD

APPL-NO: JP03058451

APPL-DATE: March 22, 1991

US-CL-CURRENT: 15/339

INT-CL (IPC): A47L 9/28; A47L 9/00

## ABSTRACT:

PURPOSE: To provide a vaccum cleaner with high operability by remote controlling the same by the use of a remote control having an angular velocity sensor built therein.

CONSTITUTION: An angular velocity sensor 6 built in a remote controlled transmitter 1 detects the angular volocity in the movement of human's hands in the left, right and vertical directions and the rotation of a wrist. An angle obtained by a signal processor 4 is subjected to multiplex process and then sent out by an electric wave signal transmitting circuit 8. A signal received by an electric wave signal receiving circuit 10 in a vacuum cleaner body 2 is decoded by a signal processor 11 and an arm controlling motor 13 is driven through a cleaner controlling driver 12 so that a suction device 3 is moved left, right, back and forth or rotated. Also, a travelling motor 15 and steering motor 18 are controlled through a travelling system driver 14 so that the vacuum cleaner body follows the moving suction device 3 automatically in the position and direction.

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